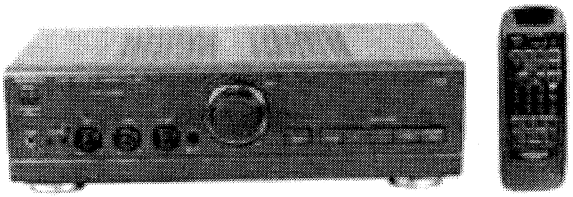
ORDER NO. AD9507169C8

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-V620



Colour

(K) : Black

Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Britain	
(EG)	Germany and Italy	
(GC)	Asia, Latin America, Middle East and Africa	
(GN)	Oceania	

SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
SCHEMATIC DIAGRAMS\ПРИНЦИПИАЛЬНЫЕ СХЕМЫ
WIRING CONNECTION DIAGRAM\СХЕМА СОЕДИНЕНИЙ
BLOCK DIAGRAM\БЛОК-СХЕМА
FUNCTION OF IC TERMINALS\ФУНКЦИОНАЛЬНОЕ НАЗНАЧЕНИЕ ВЫВОДОВ ИНТЕГРАЛЬНЫХ МИКРОСХЕМ
REPLACEMENT PARTS LIST\СПИСОК ЗАПАСНЫХ ЧАСТЕЙ
CABINET PARTS LOCATION\РАСПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА
PACKAGING\УПАКОВКА

Technics

© 1995 Matsushita Electric Industrial Co., Ltd.
All rights reserved. Unauthorized copying and distribution is a violation of law.

Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output	
both channels driven	2×70 W (8 Ω)
1 kHz continuous power output	
both channels driven (THD: 1%)	2×80 W (8 Ω)
	2×100 W (4 Ω)
63 Hz – 12.5 kHz continuous power output	
both channels driven (THD: 1%)	2×75 W (8 Ω)
	2×95 W (4 Ω)
Total harmonic distortion	
rated power at 20 Hz – 20 kHz	0.1% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)	
rated power	0.1% (8 Ω)
Residual hum and noise	1 mV
Damping factor	100 (8 Ω)
	50 (4 Ω)
Headphones output level/impedance	540 mV/47 Ω (Ø 6.3)
Load impedance	
A or B	4 Ω – 16 Ω
A and B	8 Ω – 16 Ω
Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)	
MM	150 mV (IHF '66)
S/N (rated power, 4 Ω)	
PHONO MM	76 dB (77 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	92 dB (95 dB, IHF '66)
S/N at – 26 dB power (4 Ω)	
PHONO MM	67 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	70 dB
S/N at 50 mW (4 Ω)	
PHONO MM	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	63 dB
Frequency response	
PHONO MM	RIAA standard cuve ± 1 dB (30 Hz – 15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC	3 Hz – 60 kHz (+0, – 3 dB) +0 dB, – 0.3 dB (20 Hz – 20 kHz)
Tone controls	
BASS	50 Hz, +10 dB to – 10 dB
TREBLE	20 kHz, +10 dB to – 10 dB
Output voltage	
TAPE 1, TAPE 2/DCC REC OUT	150 mV
Channel balance (AUX 250 Hz – 6.3 kHz)	± 1 dB
Channel separation (AUX 1 kHz)	50 dB

■ **GENERAL**

Power consumption	190 W
Power supply	
For (E) and (EG) areas	50 Hz/60 Hz AC, 230 V
For (EB), (GN) areas	50 Hz/60 Hz AC, 230 V – 240 V
For (GC) area only	50 Hz/60 Hz AC, 110 V – 127 V / 220 V – 240 V
Dimensions (W × H × D)	430×125×310 mm
Weight	6.8 kg

Notes:

1. Design and specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

■ Schematic Diagram

Page

A OPERATION CIRCUIT 15
B VOLUME CIRCUIT 15
C TONE AMP CIRCUIT 16
D HEADPHONES JACK CIRCUIT 16
E MAIN CIRCUIT ..... 17~19
F POWER SUPPLY CIRCUIT 19, 20
G POWER TRANSFORMER CIRCUIT 19, 20
H AC IN CIRCUIT [for (GC) area only] 20

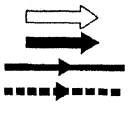
- **This schematic diagram may be modified at any time with the development of new technology.**

Notes:

- **S401** : TONE control switch (ON/DEFEAT)
- **S701** : Voltage adjustment switch in "220V–240V" position [for (GC) area only]
- **S801** : Input selector switch (PHONO)
- **S802** : Input selector switch (TUNER)
- **S803** : Input selector switch (CD)
- **S804** : Input selector switch (AUX)
- **S805** : Input selector switch (TAPE 2/DCC)
- **S806** : TAPE 1 MONITOR switch
- **S807** : Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON)
- **S808** : Speaker select switch (SPEAKER A)
- **S809** : Speaker select switch (SPEAKER B)
- **VR471** : Tone control (BASS)
- **VR472** : Tone control (TREBLE)
- **VR501** : Volume control (VOLUME)
- **VR502** : Balance control (BALANCE)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  No mark: Power ON

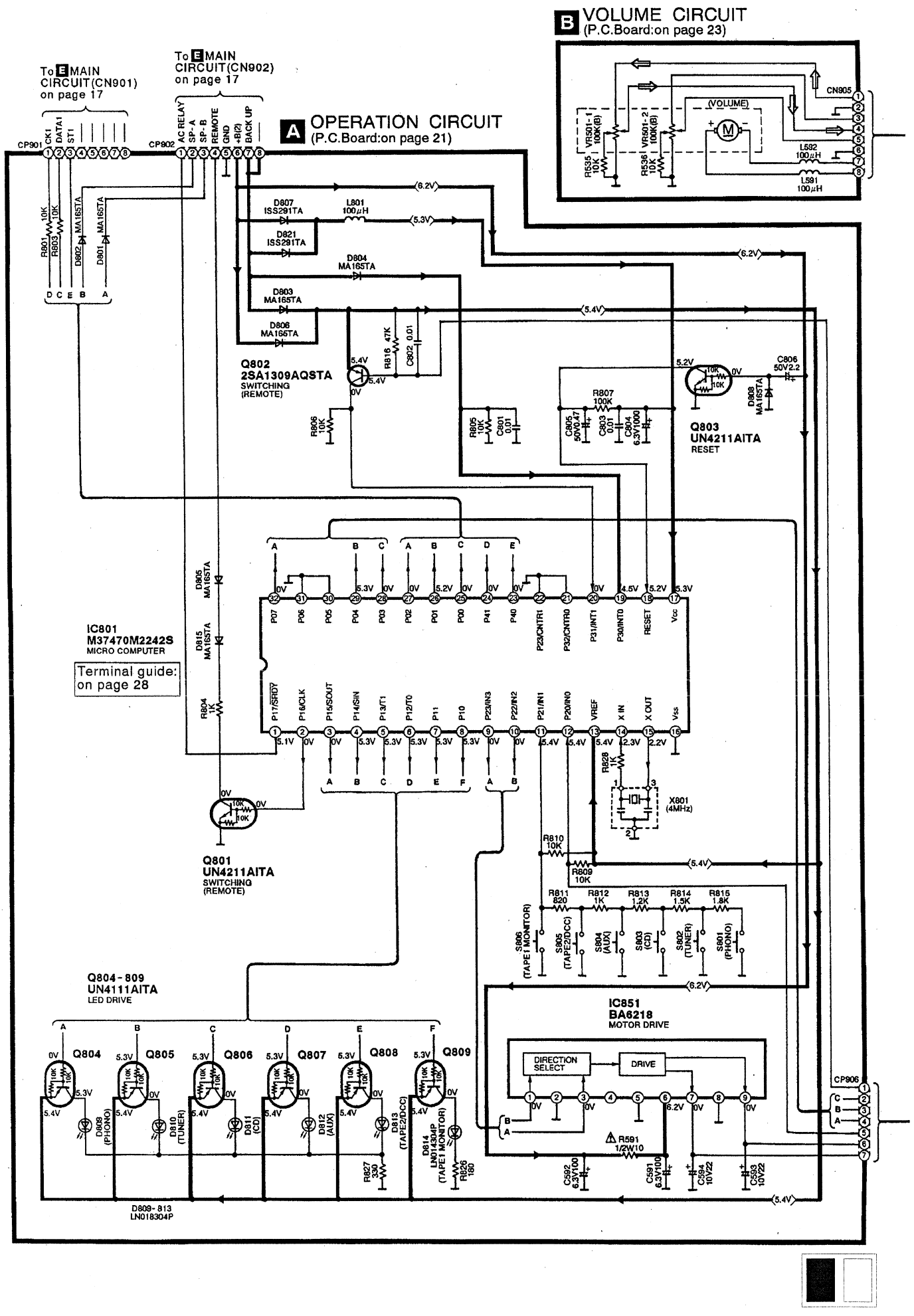
- Voltage and signal line

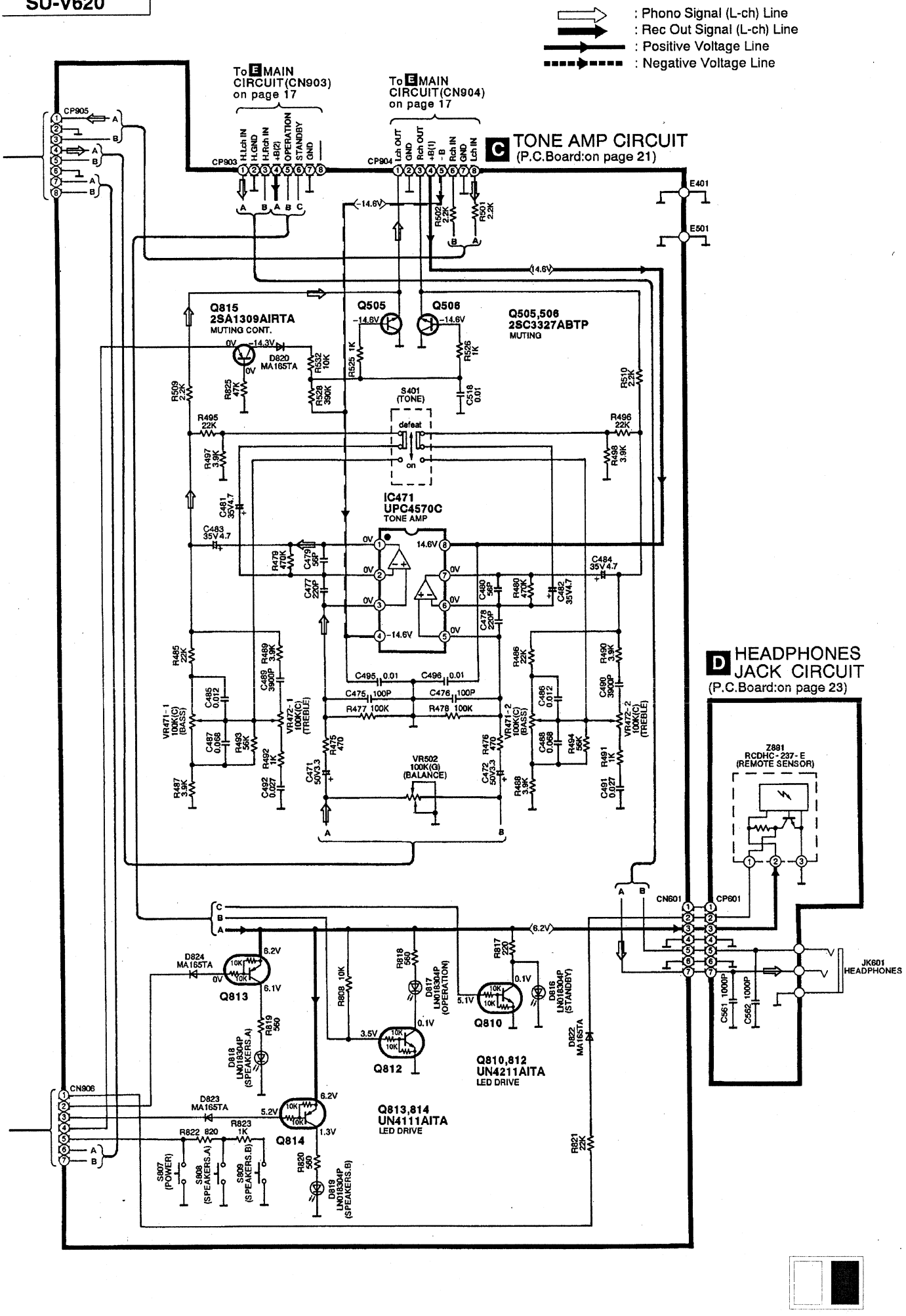


: Phono Signal (L-ch) Line
: Rec Out Signal (L-ch) Line
: Positive Voltage Line
: Negative Voltage Line

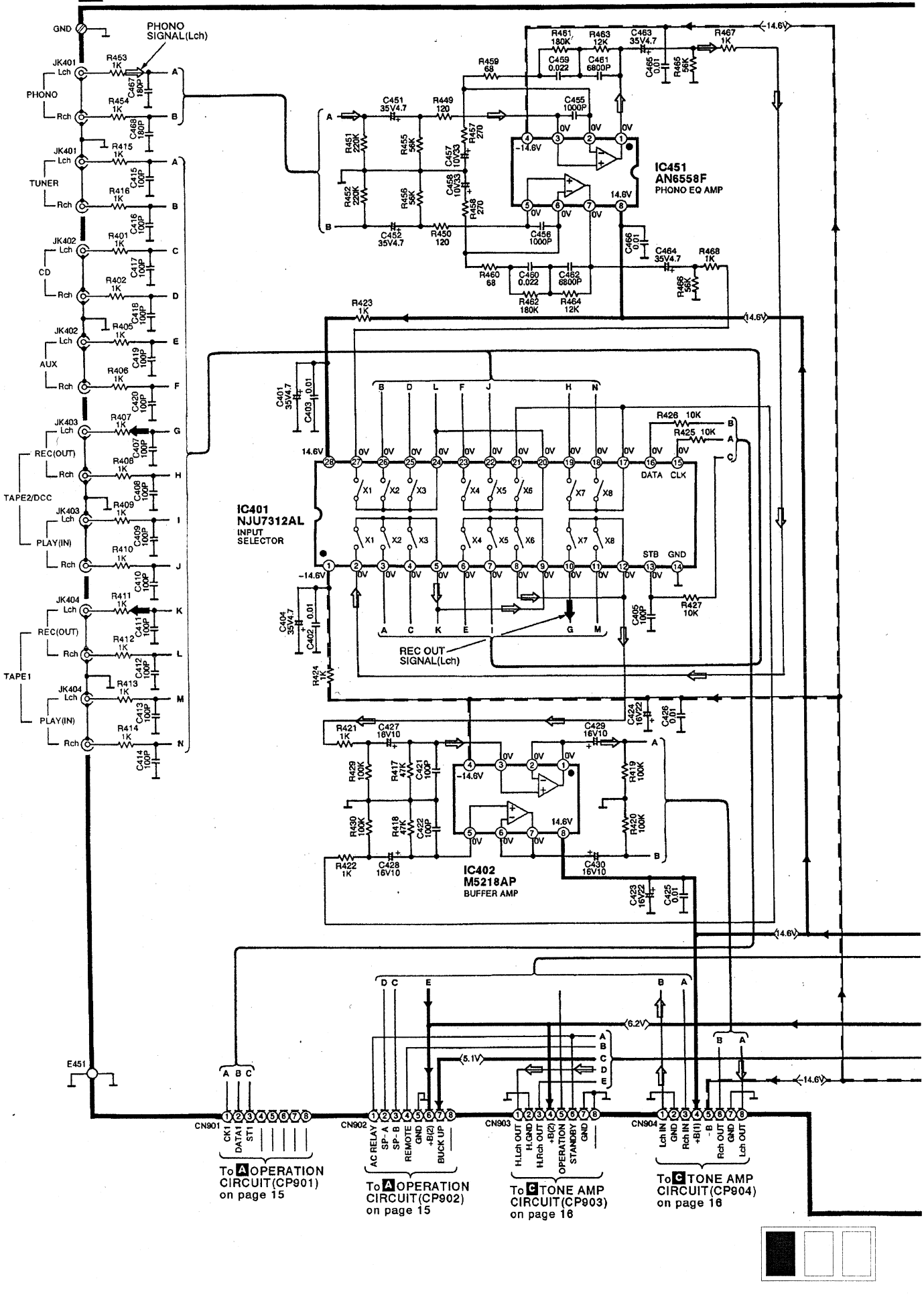
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

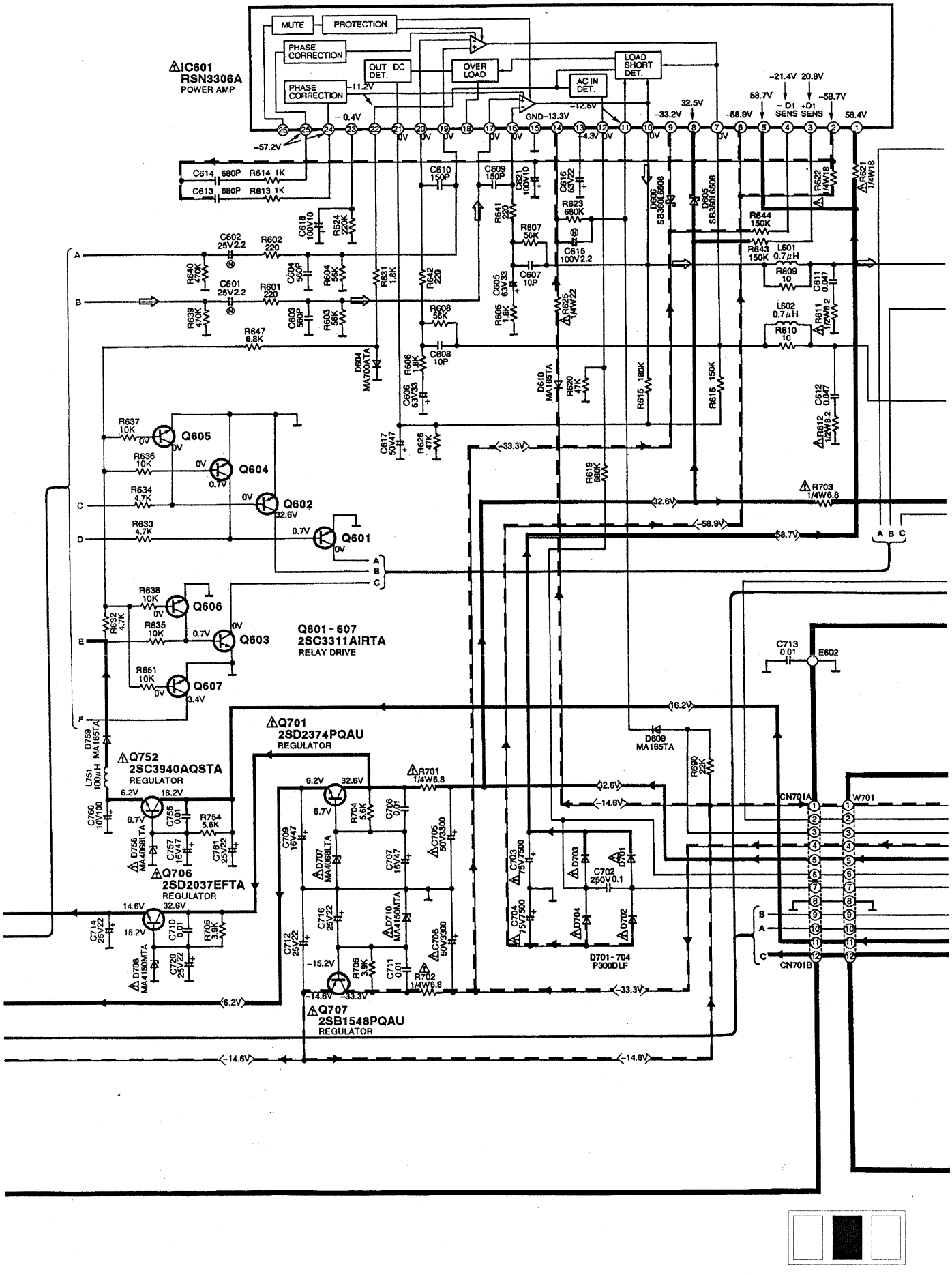
- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.


B VOLUME CIRCUIT
(P.C.Board:on page 23)
A OPERATION CIRCUIT
(P.C.Board:on page 21)
To E MAIN CIRCUIT(CN901) on page 17
To E MAIN CIRCUIT(CN902) on page 17
CP901
CP902
CK1
DATA1
ST1
AC RELAY
SP-A
SP-B
REMOTE
GND
+B(2)
BACK UP
CN905
(VOLUME)
VR501-1 100K(B)
VR501-2 100K(B)
R535 10K
R536 10K
L592 100μH
L591 100μH
D807 ISS291TA
D821 ISS291TA
L801 100μH
D804 MA165TA
D803 MA165TA
D806 MA165TA
D802 MA165TA
D801 MA165TA
R801 10K
R803 10K
D C E B A
6.2V
5.3V
5.4V
Q802
2SA1309AQSTA
SWITCHING
(REMOTE)
R816 47K
C802 0.01
R806 10K
R805 10K
C801 0.01
R807 100K
C805 50V0.47
C803 0.01
C804 6.3V1000
Q803
UN4211AITA
RESET
C806 50V2.2
D808 MA165TA
IC801
M37470M2242S
MICRO COMPUTER
Terminal guide: on page 28
D805 MA165TA
D815 MA165TA
R804 1K
P07 P06 P05 P04 P03 P02 P01 P00 P41 P40 P23/CNTR1 P32/CNTR0 P31/INT1 P30/INT0 RESET Vcc
P17/SRDY P16/CLK P15/SOUT P14/SIN P13/T1 P12/T0 P11 P10 P23/IN3 P22/IN2 P21/IN1 P20/IN0 VREF X IN X OUT Vss
R828 1K
X801 (4MHz)
Q801
UN4211AITA
SWITCHING
(REMOTE)
R810 10K
R809 10K
R811 820
R812 1K
R813 1.2K
R814 1.5K
R815 1.8K
S806 (TAPE1 MONITOR)
S805 (TAPE2/DCC)
S804 (AUX)
S803 (CD)
S802 (TUNER)
S801 (PHONO)
Q804-809
UN4111AITA
LED DRIVE
Q804
Q805
Q806
Q807
Q808
Q809
D808 (PHONO)
D810 (TUNER)
D811 (CD)
D812 (AUX)
D813 (TAPE2/DCC)
D814 LN014304P (TAPE1 MONITOR)
R827 330
R826 180
D809-813 LN018304P
IC851
BA6218
MOTOR DRIVE
DIRECTION SELECT
DRIVE
R591 1/2W10
C592 6.3V100
C591 6.3V100
C594 10V22
C593 10V22
CP906

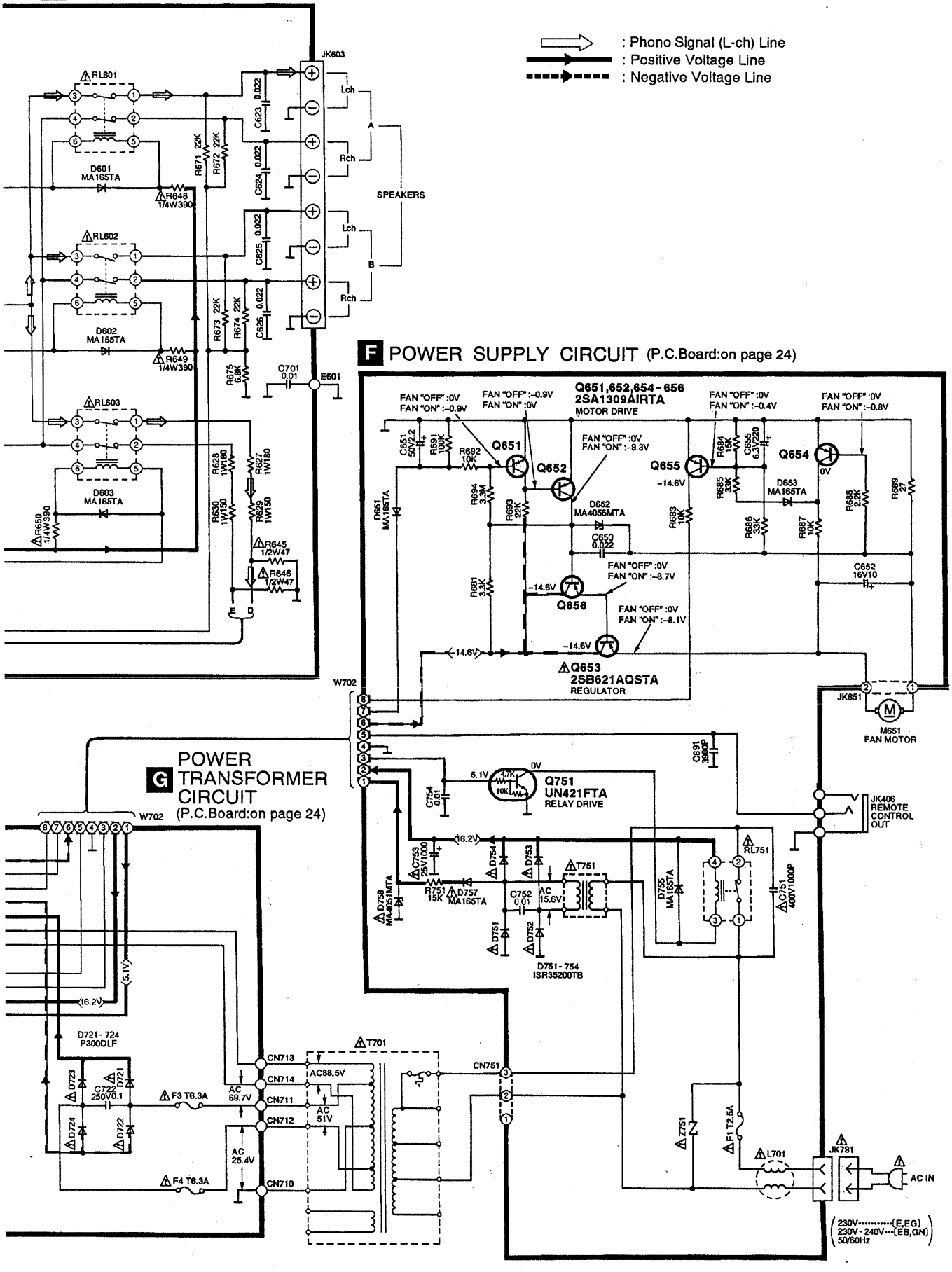

: Phono Signal (L-ch) Line
: Rec Out Signal (L-ch) Line
: Positive Voltage Line
: Negative Voltage Line
To E MAIN CIRCUIT(CN903) on page 17
To E MAIN CIRCUIT(CN904) on page 17
C TONE AMP CIRCUIT
(P.C.Board:on page 21)
D HEADPHONES JACK CIRCUIT
(P.C.Board:on page 23)
Q815 2SA1309AIRTA MUTING CONT.
Q505 Q506
Q505,506 2SC3327ABTP MUTING
IC471 UPC4570C TONE AMP
S401 (TONE)
VR502 100K(G) (BALANCE)
Z881 RCDHC-237-E (REMOTE SENSOR)
JK601 HEADPHONES
Q813
Q812
Q810
Q810,812 UN4211AITA LED DRIVE
Q814
Q813,814 UN4111AITA LED DRIVE
S807 (POWER)
S808 (SPEAKERS.A)
S809 (SPEAKERS.B)

E MAIN CIRCUIT (P.C.Board:on pages 22,23)

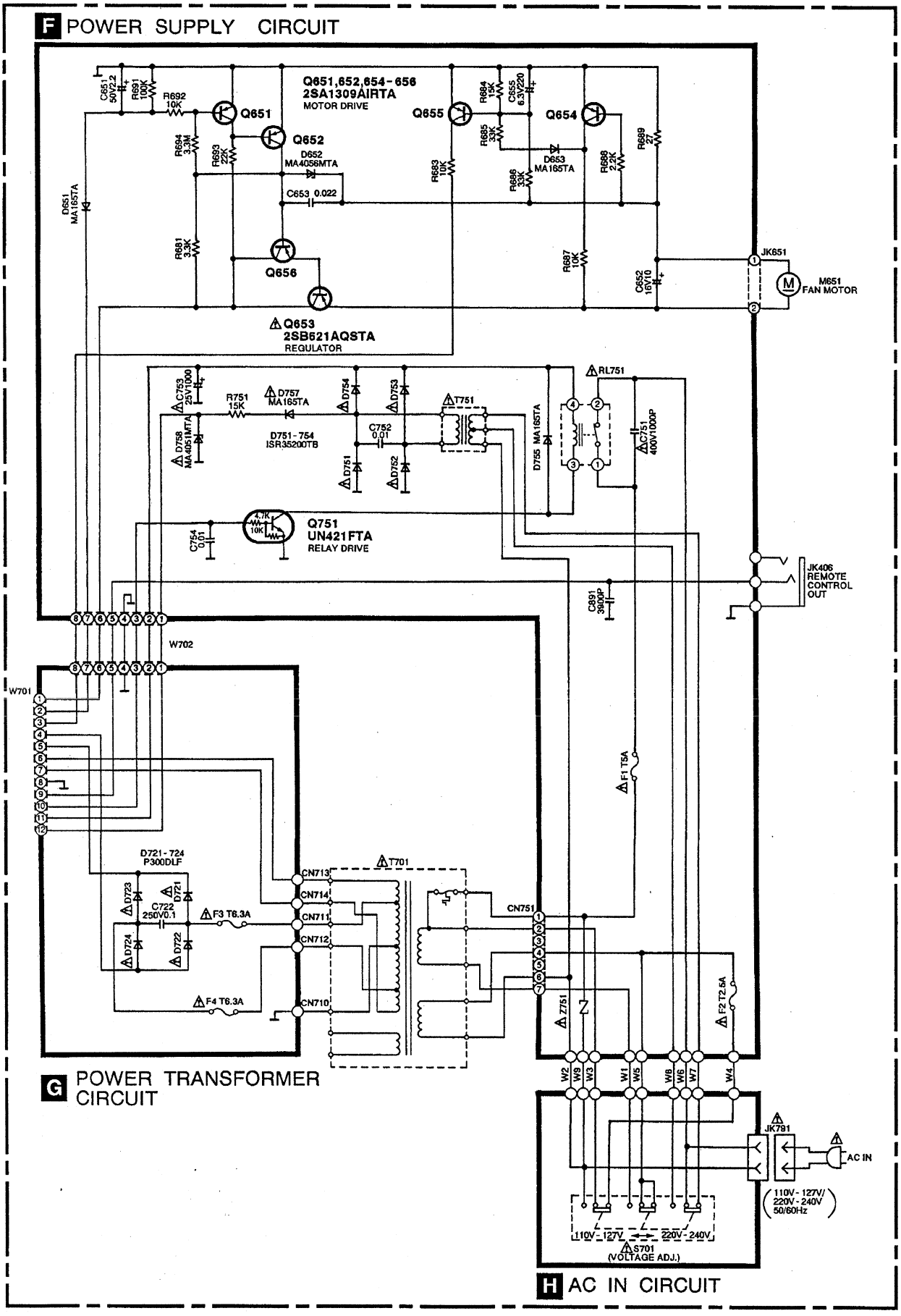



⚠IC601
RSN3306A
POWER AMP
MUTE
PROTECTION
PHASE CORRECTION
PHASE CORRECTION
OUT DC DET.
OVER LOAD
LOAD SHORT DET.
AC IN DET.
GND-13.3V
-57.2V
-11.2V
-12.5V
-0.4V
-33.2V
32.5V
-58.9V
58.7V
-21.4V
20.8V
-D1 SENS
+D1 SENS
-58.7V
58.4V
Q605
Q604
Q602
Q601
Q606
Q603
Q607
Q601 - 607
2SC3311AiRTA
RELAY DRIVE
⚠Q701
2SD2374PQAU
REGULATOR
⚠Q752
2SC3940AQSTA
REGULATOR
⚠Q706
2SD2037EFTA
REGULATOR
⚠Q707
2SB1548PQAU
REGULATOR
D701 - 704
P300DLF
D609
MA165TA
CN701A
CN701B
W701
E602
A B C
-33.3V
32.6V
16.2V
-14.6V
6.2V
-15.2V

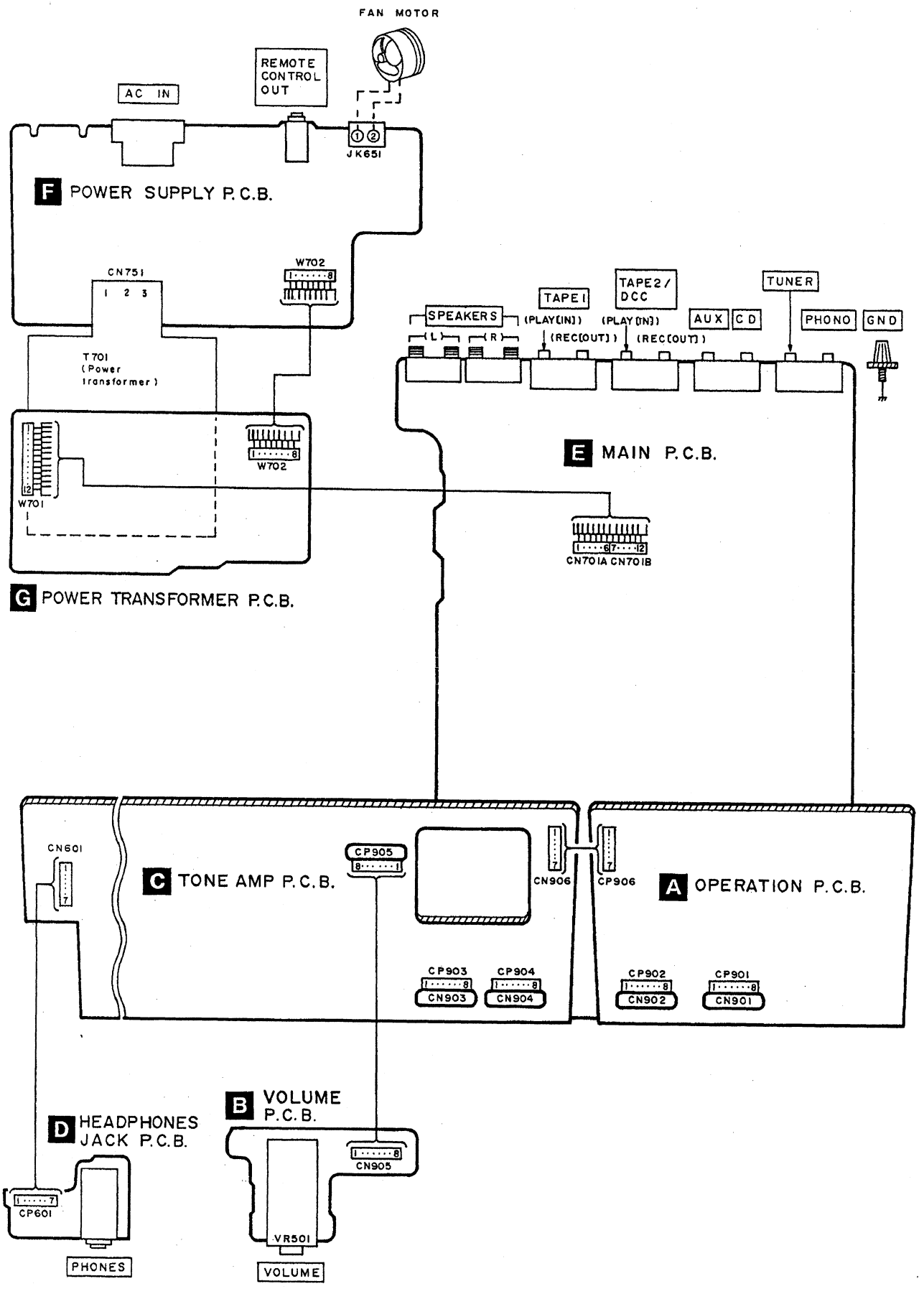
E MAIN CIRCUIT (P.C.Board:on pages 22,23)



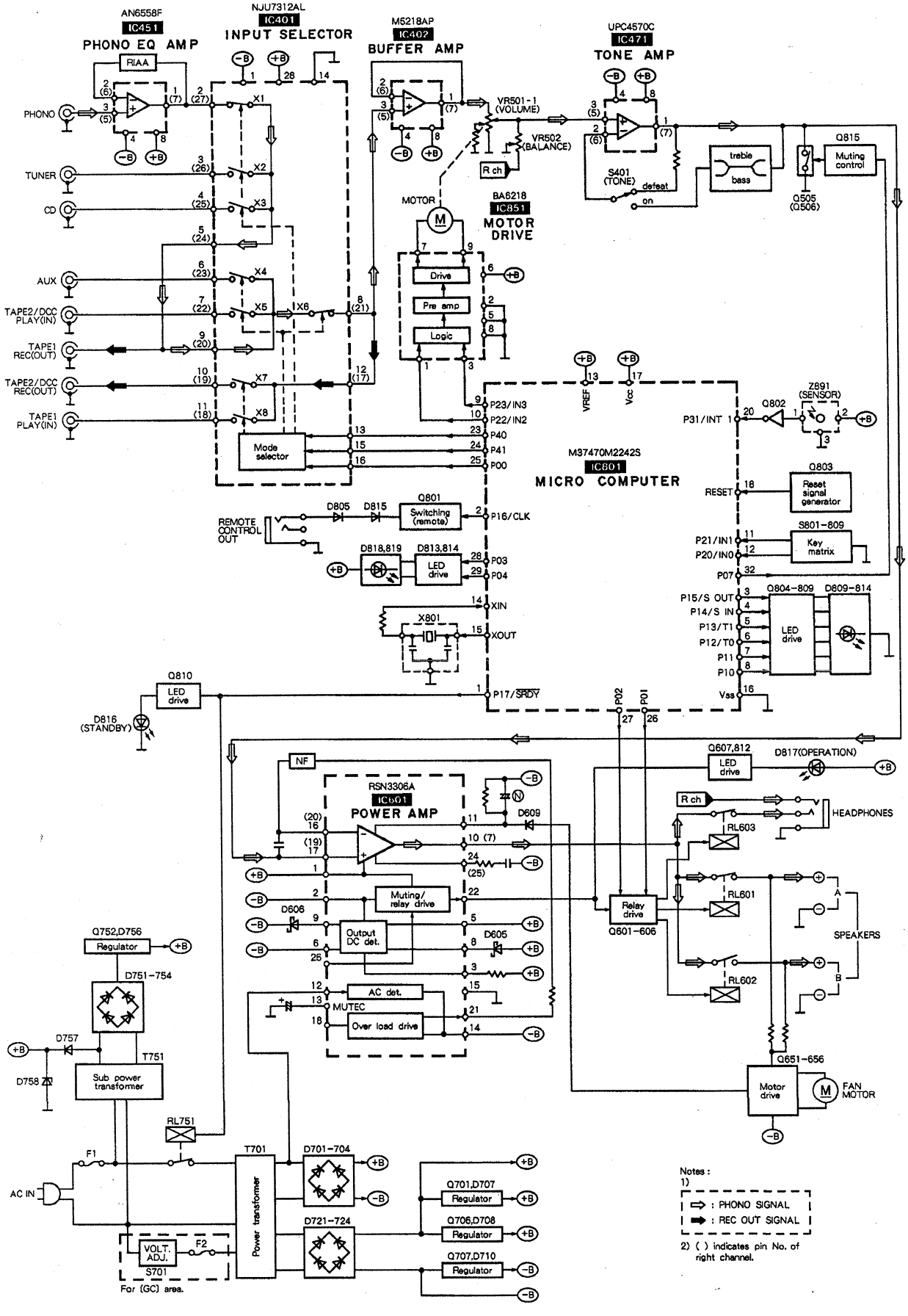
Power Source Circuit For[GC]area. (P.C.Board:on page 25)



■ Wiring Connection Diagram



■ Block Diagram



■ Function of IC Terminals

● IC801 (M37470M2242S)

Pin No.	Terminal Name	I/O	Function
1	P17/SRDY	O	Relay (Power SW) drive and LED (STANDBY) drive signal output.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	O	LED (PHONO) drive signal output.
4	P14/SIN	O	LED (TUNER) drive signal output.
5	P13/TI	O	LED (CD) drive signal output.
6	P12/TO	O	LED (AUX) drive signal output.
7	P11	O	LED (TAPE 2/DCC) drive signal output.
8	P10	O	LED (TAPE 1 MONITOR) drive signal output.
9	P23/IN3	O	Motor (volume control) drive signal output.
10	P22/IN2	O	
11	P21/IN1	I	Input select switch signal input.
12	P20/IN0	I	Switch (POWER, SPEAKER A/B) signal input.
13	VREF	I	Reference voltage input.
14	XIN	I	Oscillator signal I/O terminal. (4 MHz)
15	XOUT	O	
16	VSS	—	GND terminal.

Pin No.	Terminal Name	I/O	Function
17	VCC	I	Power supply (+5V).
18	RESET	I	System reset signal input.
19	P30/INTO	I	Back-up detect signal input.
20	P31/INTI	I	Remote control receive signal input.
21	P32/CNRO	—	No used. Connected to GND.
22	P33/CNRI	—	No used. Connected to GND.
23	P40	O	Strobe signal input for Input Selector IC (IC401).
24	P41	O	Clock signal input for Input Selector IC (IC401).
25	P00	O	Data signal input for Input Selector IC (IC401).
26	P01	O	SPEAKER A select signal output.
27	P02	O	SPEAKER B select signal output.
28	P03	O	LED (SPEAKER A) drive signal output.
29	P04	O	LED (SPEAKER B) drive signal output.
30	P05	—	No used. Connected to GND.
31	P06	—	No used. Connected to GND.
32	P07	O	Audio muting control signal output.

■ Replacement Parts List

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y: Supply period for three years from termination of production.
*The "(SF)" mark denotes the standard part.
*<VRD>: indicates parts that are supplied by Video Recorder Division.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC401	NJU7312AL	I. C, INPUT SELECTOR	
IC402	M5218AP	I. C, BUFFER AMP.	
IC451	AN6558F	I. C, PHONO EQ AMP.	
IC471	UPC4570C	I. C, TONE AMP.	
IC601	RSN3306A	I. C, POWER AMP.	⚠
IC801	M37470M2242S	I. C, MICRO COMPUTER	
IC851	BA6218	I. C, MOTOR DRIVE	
		TRANSISTOR(S)	
Q505, 506	2SC3327-A	TRANSISTOR	
Q601-607	2SC3311AIRTA	TRANSISTOR	
Q651, 652	2SA1309AIRTA	TRANSISTOR	
Q653	2SB621AQSTA	TRANSISTOR	⚠
Q654-656	2SA1309AIRTA	TRANSISTOR	
Q701	2SD2374PQAU	TRANSISTOR	⚠
Q706	2SD2037EFTA	TRANSISTOR	⚠
Q707	2SB1548PQAU	TRANSISTOR	⚠
Q751	UN421FTA	TRANSISTOR	
Q752	2SC3940AQSTA	TRANSISTOR	⚠
Q801	UN4211	TRANSISTOR	
Q802	2SA1309A-R	TRANSISTOR	
Q803	UN4211	TRANSISTOR	
Q804-809	UN4111	TRANSISTOR	
Q810	UN4211	TRANSISTOR	
Q812	UN4211	TRANSISTOR	
Q813, 814	UN4111	TRANSISTOR	
Q815	2SA1309AIRTA	TRANSISTOR	
		DIODE(S)	
D601-603	MA165	DIODE	
D604	MA700	DIODE	
D605, 606	SB360L6508	DIODE	
D609, 610	MA165	DIODE	
D651	MA165	DIODE	
D652	MA4056MTA	DIODE	
D653	MA165	DIODE	
D701-704	P300DLF	DIODE	⚠
D707	MA4068L	DIODE	⚠
D708	MA4150M	DIODE	⚠
D710	MA4150M	DIODE	⚠
D721-724	P300DLF	DIODE	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D751-754	1SR35200TB	DIODE	⚠
D755	MA165	DIODE	
D756	MA4068L	DIODE	⚠
D757	MA165	DIODE	⚠
D758	MA4051MTA	DIODE	⚠
D759	MA165	DIODE	
D801-806	MA165	DIODE	
D807	1SS291TA	DIODE	
D808	MA165	DIODE	
D809-813	LN018304P	L. E. D.	
D814	LN014304P	L. E. D.	
D815	MA165	DIODE	
D816-819	LN018304P	L. E. D.	
D820	MA165	DIODE	
D821	1SS291TA	DIODE	
D822-824	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR471	EVJYA1F04C15	V. R, BASS	
VR472	EVJYA1F04C15	V. R, TREBLE	
VR501	EUWMG2020B15	V. R, VOLUME	
VR502	EVJ02QF04G15	V. R, BALANCE	
		COMPONENT COMBINATION(S)	
Z751	ERZV10V511CS	SURGE ABSORBER	⚠
Z891	RCDHC-237	REMOTE SENSOR	
		COIL(S)	
L591, 592	ELESN101KA	COIL	
L601, 602	SLQY07G-40	COIL	
L701	SLQZ650MH49	COIL	⚠(E, EB, EG, GN)
L751	ELESN101KA	COIL	
L801	ELEXT101KA9	COIL	
		TRANSFORMER(S)	
T701	RTP1N5E022-W	POWER TRANSFORMER(MAIN)	⚠(E, EG)
T701	RTP1N5B020-W	POWER TRANSFORMER(MAIN)	⚠(EB, GN)
T701	RTP1N5E023-W	POWER TRANSFORMER(MAIN)	⚠(GC)
T751	RTP1I5E003-V	POWER TRANSFORMER(SUB)	⚠(E, EB, EG, GN)
T751	RTP1I5E005-V	POWER TRANSFORMER(SUB)	⚠(GC)
		OSCILLATOR(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
X801	EF0EC4004T4	OSCILLATOR(4 MHz)	
		FUSE(S)	
F1	XBA2C25TB0	FUSE, 250V, T2.5A	⚠(E, EB, EG, GN)
F1	XBA2C50TB0	FUSE, 250V, T5A	⚠(GC)
F2	XBA2C25TB0	FUSE, 250V, T2.5A	⚠(GC)
F3, 4	XBA2C63TB0	FUSE, 250V, T6.3A	⚠
		SWITCH(ES)	
S401	ESB68047	SW, TONE ON/DEFEAT	
S701	ESD26840A	SW, VOLTAGE ADJ	⚠(GC)
S801	EVQ21405R	SW, PHONO	
S802	EVQ21405R	SW, TUNER	
S803	EVQ21405R	SW, CD	
S804	EVQ21405R	SW, AUX	
S805	EVQ21405R	SW, TAPE2/DCC	
S806	EVQ21405R	SW, TAPE1 MONITOR	
S807	EVQ21405R	SW, POWER	
S808	EVQ21405R	SW, SPEAKERS(A)	
S809	EVQ21405R	SW, SPEAKERS(B)	
		CONNECTOR(S)	
CN601	RJU057W007	CONNECTOR(7P)	
CN710-714	RJS1A1101T1	CONNECTOR(1P)	
CN751	SJS305-1	CONNECTOR(3P)	(E, EB, EG, GN)
CN751	SJS702-2	CONNECTOR(7P)	(GC)
CN901-905	RJU003K008M1	CONNECTOR(8P)	
CN906	SJS50782JQH	CONNECTOR(7P)	
CN701A	RJS1A6606	CONNECTOR(6P)	
CN701B	RJS1A6606	CONNECTOR(6P)	
CP601	RJT057W007-1	CONNECTOR(7P)	
CP901-905	RJT003K008-1	CONNECTOR(8P)	
CP906	SJT30745JQ	CONNECTOR(7P)	
		GND PLATE(S)	
E401	RSC0377	GND PLATE	
E451	SNE1004-2	GND PLATE	
E501	RSC0377	GND PLATE	
E601, 602	SNE1004-2	GND PLATE	
		FUSE HOLDER(S)	
FC701, 702	EYF52BC	FUSE HOLDER	
FC703, 704	EYF52BC	FUSE HOLDER	(GC)
FC705-708	EYF52BC	FUSE HOLDER	
		RELAY(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
RL601-603	RSY0013M-0	RELAY	⚠
RL751	RSY0019M-0	RELAY	⚠
		JACK(S)	
JK401-404	SJF3069N	PHONO, TUNER, etc TERMINAL	
JK406	RJJ33TR01	REMOTE CONT. OUT	
JK601	RJJ63TA01	HEADPHONES	
JK603	RJH4801M-1	SP TERMINAL	
JK651	RJS1A7002-1	FAN MOTOR	
JK791	SJS9236	AC INLET	⚠(E, EB, EG)
JK791	SJS9231-1B	AC INLET	⚠(GC)
JK791	SJSD16	AC INLET	⚠(GN)

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R401, 402	ERDS2TJ102	1/4W 1K
R405-416	ERDS2TJ102	1/4W 1K
R417, 418	ERDS2TJ473	1/4W 47K
R419, 420	ERDS2TJ104	1/4W 100K
R421-424	ERDS2TJ102	1/4W 1K
R425-427	ERDS2TJ103	1/4W 10K
R429, 430	ERDS2TJ104	1/4W 100K
R449, 450	ERDS2EJ121	1/4W 120
R451, 452	ERDS2TJ224T	1/4W 220K
R453, 454	ERDS2TJ102	1/4W 1K
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R475, 476	ERDS2TJ471	1/4W 470
R477, 478	ERDS2TJ104	1/4W 100K
R479, 480	ERDS2TJ474	1/4W 470K
R485, 486	ERDS2TJ223	1/4W 22K
R487-490	ERDS2TJ392T	1/4W 3.9K
R491, 492	ERDS2TJ102	1/4W 1K
R493, 494	ERDS2TJ563	1/4W 56K
R495, 496	ERDS2TJ223	1/4W 22K
R497, 498	ERDS2TJ392T	1/4W 3.9K
R501, 502	ERDS2TJ222	1/4W 2.2K
R509, 510	ERDS2TJ222	1/4W 2.2K
R525, 526	ERDS2TJ102	1/4W 1K
R528	ERDS2TJ394	1/4W 390K
R532	ERDS2TJ103	1/4W 10K
R535, 536	ERDS2TJ103	1/4W 10K
R591 ⚠	ERDS1FVJ100T	1/2W 10
R601, 602	ERDS2TJ221	1/4W 220
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ100	1/4W 10
R611, 612⚠	ERDS1FVJ8R2T	1/2W 8.2
R613, 614	ERDS2TJ102	1/4W 1K
R615	ERDS2TJ184T	1/4W 180K
R616	ERDS2TJ154	1/4W 150K
R619	ERDS2TJ684	1/4W 680K
R620	ERDS2TJ473	1/4W 47K
R621, 622⚠	ERD25FVJ180T	1/4W 18
R623	ERDS2TJ684	1/4W 680K
R624	ERDS2TJ224T	1/4W 220K
R625 ⚠	ERD25FJ220	1/4W 22
R626	ERDS2TJ473	1/4W 47K
R627, 628	ERG1SJ181E	1W 180
R629, 630	ERG1SJ151E	1W 150
R631	ERDS2TJ182	1/4W 1.8K
R632-634	ERDS2TJ472	1/4W 4.7K
R635-638	ERDS2TJ103	1/4W 10K
R639, 640	ERDS2TJ474	1/4W 470K
R641, 642	ERDS2TJ221	1/4W 220
R643, 644	ERDS2TJ154	1/4W 150K
R645, 646⚠	ERDS1FVJ470T	1/2W 47
R647	ERDS2TJ682T	1/4W 6.8K
R648-650⚠	ERD25FVJ391T	1/4W 390
R651	ERDS2TJ103	1/4W 10K
R671-674	ERDS2TJ223	1/4W 22K
R675	ERDS2TJ682T	1/4W 6.8K
R681	ERDS2TJ332	1/4W 3.3K
R683	ERDS2TJ103	1/4W 10K
R684	ERDS2TJ153	1/4W 15K
R685, 686	ERDS2TJ333	1/4W 33K
R687	ERDS2TJ103	1/4W 10K
R688	ERDS2TJ222	1/4W 2.2K
R689	ERDS2TJ270T	1/4W 27
R690	ERDS2TJ223	1/4W 22K
R691	ERDS2TJ104	1/4W 100K
R692	ERDS2TJ103	1/4W 10K
R693	ERDS2TJ223	1/4W 22K
R694	ERDS2TJ335T	1/4W 3.3M
R701-703⚠	ERD25FJ6R8	1/4W 6.8
R704	ERDS2TJ562	1/4W 5.6K
R705, 706	ERDS2TJ392T	1/4W 3.9K
R751	ERDS2TJ153	1/4W 15K
R754	ERDS2TJ562	1/4W 5.6K
R801	ERDS2TJ103	1/4W 10K
R803	ERDS2TJ103	1/4W 10K
R804	ERDS2TJ102	1/4W 1K
R805, 806	ERDS2TJ103	1/4W 10K
R807	ERDS2TJ104	1/4W 100K
R808-810	ERDS2TJ103	1/4W 10K
R811	ERDS2TJ821	1/4W 820
R812	ERDS2TJ102	1/4W 1K
R813	ERDS2TJ122	1/4W 1.2K
R814	ERDS2TJ152	1/4W 1.5K
R815	ERDS2TJ182	1/4W 1.8K
R816	ERDS2TJ473	1/4W 47K
R817	ERDS2TJ221	1/4W 220
R818-820	ERDS2TJ561	1/4W 560
R821	ERDS2TJ223	1/4W 22K
R822	ERDS2TJ821	1/4W 820
R823	ERDS2TJ102	1/4W 1K
R825	ERDS2TJ473	1/4W 47K
R826	ERDS2TJ181T	1/4W 180
R827	ERDS2TJ331	1/4W 330
R828	ERDS2TJ102	1/4W 1K
		CAPACITORS
C401	ECEA1VKA4R7B	35V 4.7U
C402, 403	ECBT1E103ZF	25V 0.01U
C404	ECEA1VKA4R7B	35V 4.7U
C405	ECBT1H101KB5	50V 100P
C407-422	ECBT1H101KB5	50V 100P
C423, 424	RCE1CKA220BG	16V 22U
C425, 426	ECBT1E103ZF	25V 0.01U
C427-430	RCE1CKA100BG	16V 10U
C451, 452	ECEA1VKA4R7B	35V 4.7U
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	RCE1AKA330BG	10V 33U
C459, 460	ECQB1H223JF3	50V 0.022U
C461, 462	ECQB1H682JF3	50V 6800P
C463, 464	ECEA1VKA4R7B	35V 4.7U
C465, 466	ECBT1E103ZF	25V 0.01U
C467, 468	ECBT1H181KB5	50V 180P
C471, 472	RCE1HKA3R3BG	50V 3.3U
C475, 476	ECBT1H101KB5	50V 100P
C477, 478	ECBT1H221KB5	50V 220P
C479, 480	ECBT1H560J5	50V 56P
C481-484	ECEA1VKA4R7B	35V 4.7U
C485, 486	ECFR1E123KR	25V 0.012U
C487, 488	ECQV1H683JM3	50V 0.068U
C489, 490	ECQB1H392JF3	50V 3900P
C491, 492	ECFR1E273KR	25V 0.027U
C495, 496	ECBT1E103ZF	25V 0.01U
C518	ECBT1E103ZF	25V 0.01U
C561, 562	ECBT1H102KB5	50V 1000P
C591, 592	RCE0JKA101BV	6.3V 100U
C593, 594	ECEA1AKA220B	10V 22U
C601, 602	ECEA1EKN2R2B	25V 2.2U
C603, 604	ECBT1H561KB5	50V 560P
C605, 606	RCE1JM330BV	63V 33U
C607, 608	ECCR1H100K5	50V 10P
C609, 610	ECBT1H151KB5	50V 150P
C611, 612	ECQV1H473JM3	50V 0.047U
C613, 614	ECBA1H681KB5	50V 680P
C615	ECEA2AN2R2SB	100V 2.2U
C616	ECEA1JU220	63V 22U
C617	RCE1HM470BV	50V 47U

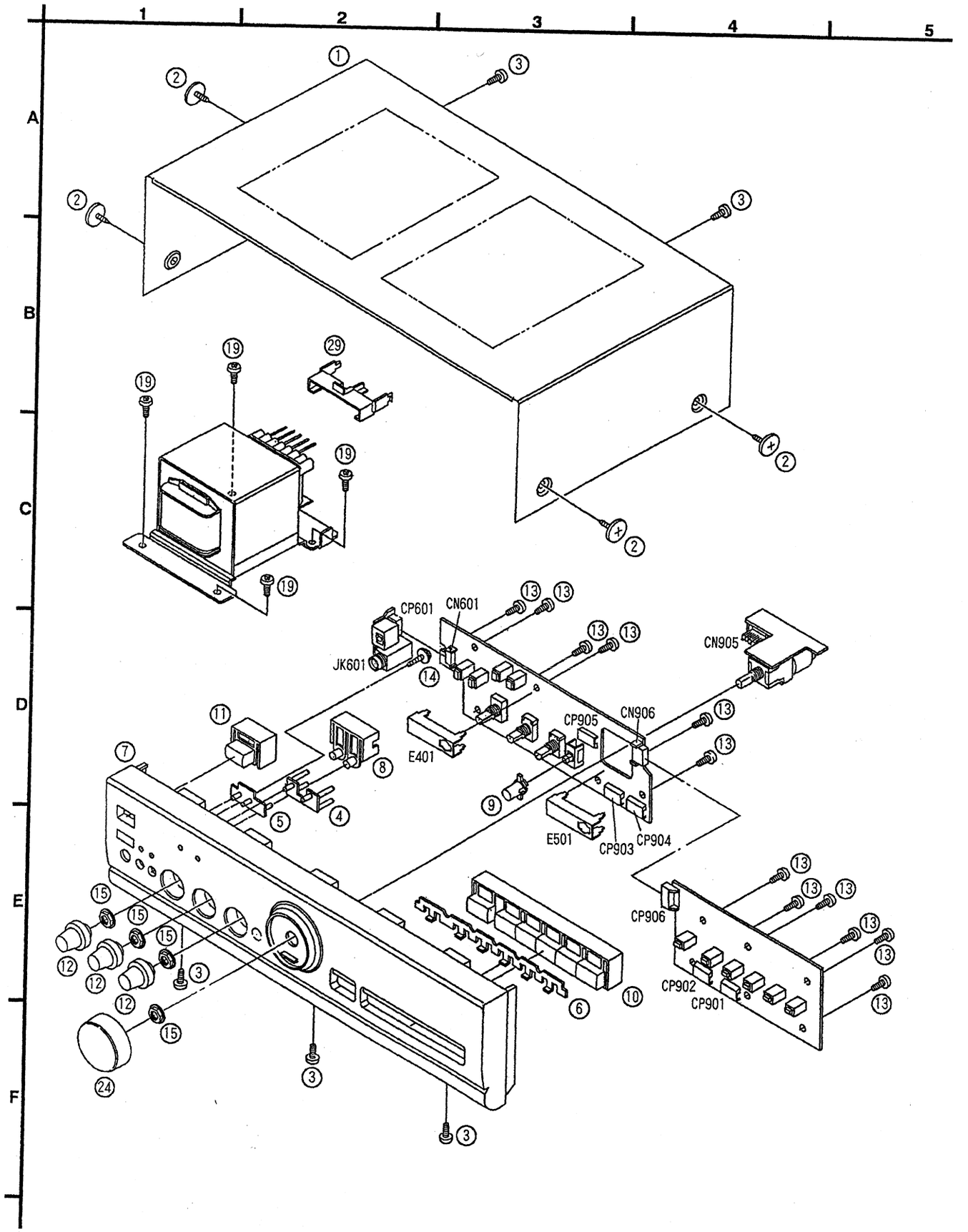
Ref. No.	Part No.	Values & Remarks
C618	ECEA2AU100	100V 10U
C621	ECEA2AU100	100V 10U
C623-626	ECQB1H223JF3	50V 0.022U
C651	ECEA1HKA2R2B	50V 2.2U
C652	RCE1CKA100BG	16V 10U
C653	ECBT1E223ZF	25V 0.022U
C655	RCE0JKA221BV	6.3V 220U
C701	ECBT1E103ZF	25V 0.01U
C702	ECQE2104KF3	250V 0.1U
C703, 704⚠	ECES75V752UX	75V 7500U
C705, 706⚠	ECA1HM332E	50V 3300U
C707	RCE1CKA470BG	16V 47U
C708	ECKR1H103ZF5	50V 0.01U
C709	RCE1CKA470BG	16V 47U
C710, 711	ECKR1H103ZF5	50V 0.01U
C712	ECEA1EKA220B	25V 22U
C713	ECBT1E103ZF	25V 0.01U
C714	ECEA1EKA220B	25V 22U
C716	ECEA1EKA220B	25V 22U
C720	ECEA1EKA220B	25V 22U
C722	ECQE2104KF3	250V 0.1U
C751 ⚠	ECKWNS102MBM	400V 1000P
C752	ECKR1H103ZF5	50V 0.01U
C753 ⚠	ECA1EM102B	25V 1000U
C754	ECBT1E103ZF	25V 0.01U
C756	ECBT1E103ZF	25V 0.01U
C757	RCE1CKA470BG	16V 47U
C760	RCE1AKA101BG	10V 100U
C761	ECEA1EKA220B	25V 22U
C801	ECBT1C103NS5	16V 0.01U
C802	ECQB1H103JF3	50V 0.01U
C803	ECBT1C103NS5	16V 0.01U
C804	RCE0JM102BV	6.3V 1000U
C805	RCE1HKAR47BG	50V 0.47U
C806	ECEA1HKA2R2B	50V 2.2U
C891	ECFR1E392KR	25V 3900P

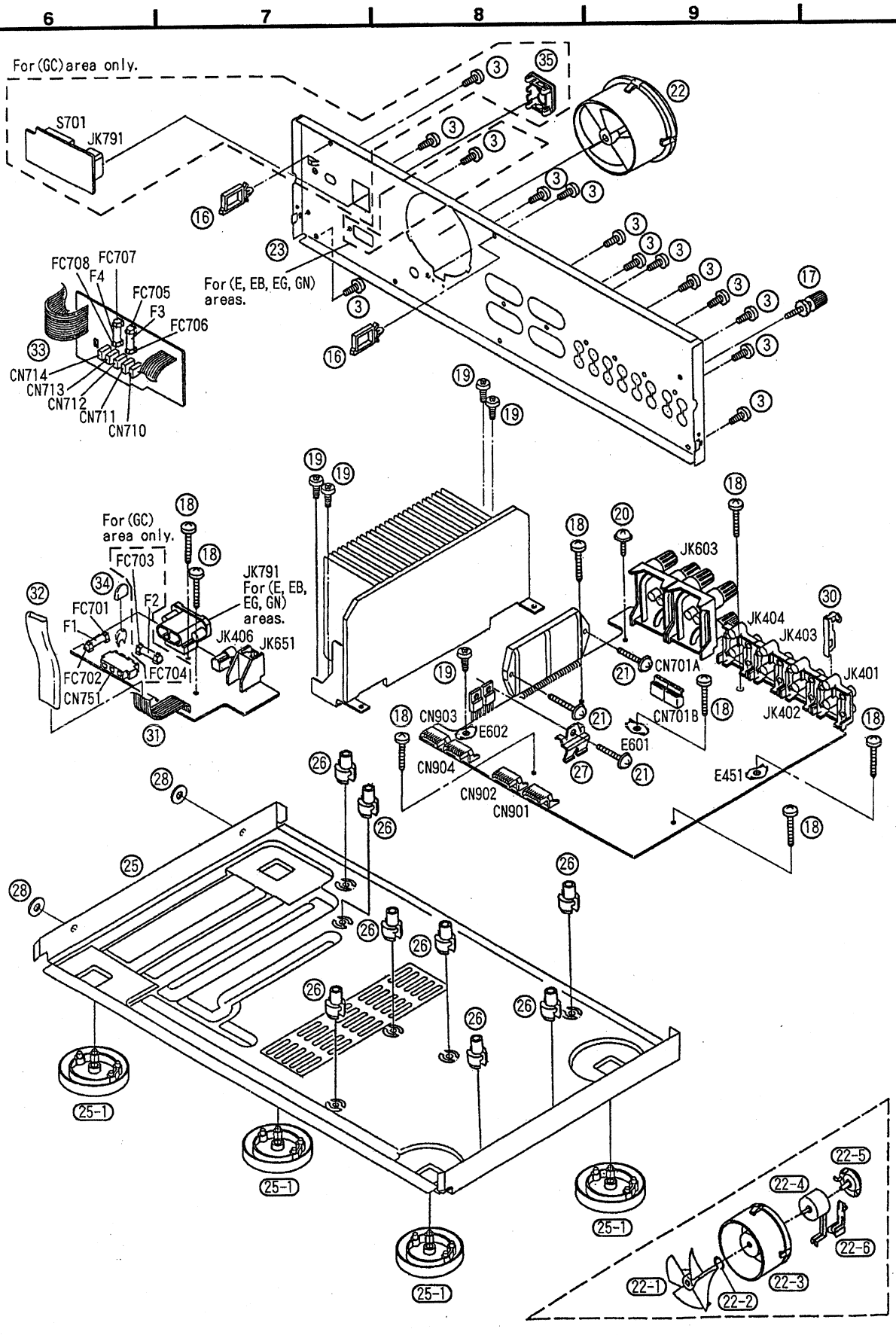
Note: The reference number SA represent the grease and tool used for this unit.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0036E-K	CABINET	
2	SNE2129-3	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RGL0184A-Q1	LEADING LIGHT PANEL	
5	RGL0185A-Q	LEADING LIGHT PANEL	
6	RGL0229-Q	LEADING LIGHT PANEL	
7	RFKGUV620E-K	FRONT PANEL ASS'Y	
8	RGU0887A-K1	BUTTON, SP	
9	RGU0889-K	BUTTON, TONE	
10	RGU1038-1K	BUTTON, SELECTOR	
11	RGU1042-K	BUTTON, POWER	
12	RGW0177A-K	KNOB, TONE	
13	RHD26017	SCREW	
14	RHD26018	SCREW	
15	RHN90001	NUT	
16	SHR9814	CLUMPER	
17	SNE2123	GND SCREW	
18	XTB3+20JFZ	SCREW	
19	XTB3+8JFZ	SCREW	
20	XTWS3+8T	SCREW	
21	XTW3+15T	SCREW	
22	REM0020-1	FAN ASS'Y	
22-1	SHE232-1	FAN	
22-2	SUS271	SPRING	
22-3	RMQ0209-K	FAN CASE	
22-4	MDN-4RB4MRC	MOTOR	
22-5	RMQ0208-K	FAN CAP	
22-6	RMQ0212-K	TERMINAL CAP	
23	RGR0226A-B1	REAR PANEL	(E)
23	RGR0226B-A1	REAR PANEL	(EB)
23	RGR0226A-A1	REAR PANEL	(EG)
23	RGR0226C-A	REAR PANEL	(GC)
23	RGR0226A-C	REAR PANEL	(GN)
24	RGW0201-K	KNOB, VOLUME	
25	RFKJAGX170PK	BOTTOM CHASSIS ASS'Y	
25-1	RKA0053-A	FOOT	
26	RKQ0089	SPACER	
27	RMC0158	ANGLE	
28	RMG0332-K	RUBBER	
29	RMN0191	SPACER	
30	RSC0105-2	SHIELD PLATE	
31	RWJ1808120KK	FLAT CABLE(8P)W702	
32	RWZ120UNW090	PROTECT TUBE	
33	RWJ1812430KQ	FLAT CABLE(12P)W701	
34	RMZ0339	SHIELD COVER	
35	SJS9231A	AC INLET COVER	(GC)

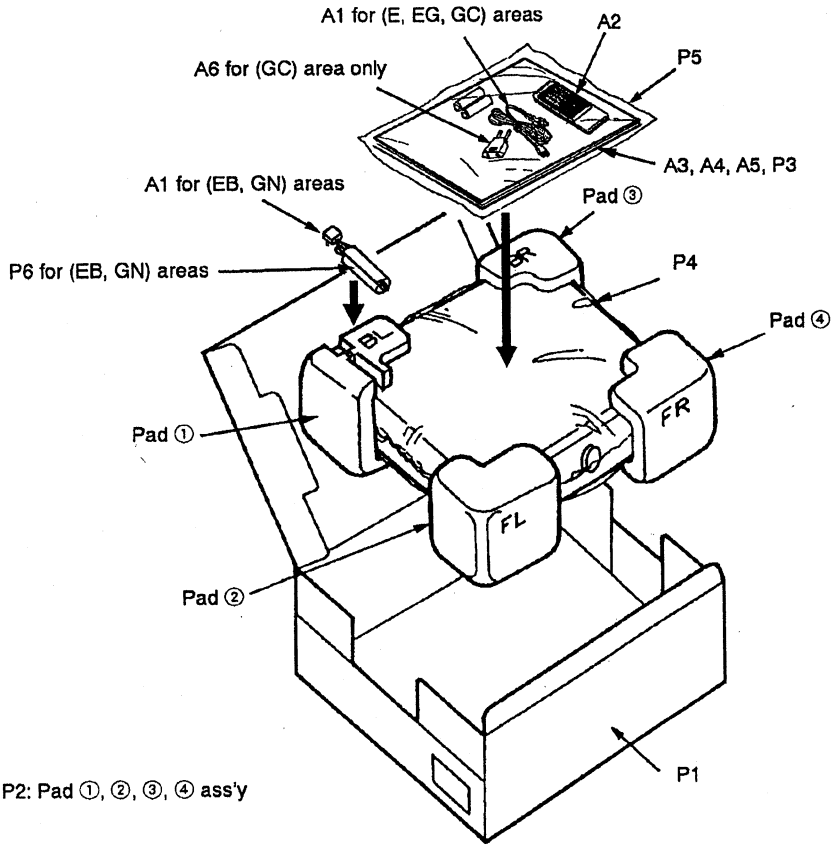
Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG2636	PACKING CASE	(E, EG, GC, GN)
P1	RPG2637	PACKING CASE	(EB)
P2	RPN0684-2	PAD	
P3	RPQ0164	PAD	
P4	SPP756	PROTECTION COVER	
P5	RPF0139	PROTECTION COVER	
P6	RPH0032	PROTECTION SHEET	(EB, GN)
		ACCESSORIES	
A1	RJA0019-2K	AC MAINS LEAD	⚠(E, EG, GC) (SF)
A1	VJA0733	AC MAINS LEAD	⚠(EB) <VRD> (SF)
A1	RJA0036-K	AC MAINS LEAD	⚠(GN)
A2	RAK-SU129WH	REMOTE CONTROL TRANSMITTER	
A2-1	RKK0057-K	BATTERY COVER	
A3	RQA0013	WARRANTY CARD	(E, EB, EG)
A3	RQX7433ZA	WARRANTY CARD	(GN)
A4	RQCB0169	SERVICE CENTER LIST	
A5	RFKSUV620E-K	INSTRUCTIONS MANUAL	(E)
A5	RQT3112-B	INSTRUCTIONS MANUAL	(EB, GN)
A5	RQT3110-D	INSTRUCTIONS MANUAL	(EG)
A5	RQT3151-G	INSTRUCTIONS MANUAL	(GC)
A6	SJP5213-2	POWER PLUG ADAPTOR	⚠(GC)
		GREASE OR JIG/TOOL	
SA1	RFKX0002	COMPOUND GREASE	

■ Cabinet Parts Location




6
7
8
9
10
For (GC) area only.
S701
JK791
For (E, EB, EG, GN) areas.
FC708
FC707
F4
FC705
F3
FC706
CN714
CN713
CN712
CN711
CN710
For (GC) area only.
FC703
FC701
F1
F2
FC702
FC704
CN751
JK791
For (E, EB, EG, GN) areas.
JK406
JK651
JK603
JK404
JK403
JK401
JK402
CN701A
CN701B
CN903
CN904
CN902
CN901
E602
E601
E451
25-1
22-1
22-2
22-3
22-4
22-5
22-6

■ Packaging


A1 for (E, EG, GC) areas
A2
P5
A6 for (GC) area only
A3, A4, A5, P3
A1 for (EB, GN) areas
Pad ③
P6 for (EB, GN) areas
P4
Pad ④
Pad ①
Pad ②
P1
P2: Pad ①, ②, ③, ④ ass'y